

Title (en)

Fastener group feeding device.

Title (de)

Vorschubeinrichtung für Anhänge-Etiketten.

Title (fr)

Dispositif d'amenée pour fixateur d'étiquettes.

Publication

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Application

**EP 91302495 A 19910321**

Priority

JP 3769490 U 19900410

Abstract (en)

A fastener group feeding device comprising a feeding gear meshing with the connecting elements of a fastener group, a feeding pawl making said feeding gear rotate intermittently, a stopper preventing the reverse rotation of the aforesaid feeding gear and a feeding cam elevating the aforesaid feeding pawl is disclosed, and an escape space into which the aforesaid feeding pawl retracts from the aforesaid feeding gear after the aforesaid feeding gear is rotated thereby is provided at the back of the aforesaid feeding pawl. <IMAGE>

IPC 1-7

**B65C 7/00**

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [A] DE 2427719 A1 19751218 - JAPAN BANOK CO LTD
- [A] DE 3442016 A1 19850530 - MONARCH MARKING SYSTEMS INC [US]
- [A] DE 3623495 A1 19870319 - MONARCH MARKING SYSTEMS INC [US]
- [A] EP 0350545 A1 19900117 - JAPAN BANOK CO LTD [JP]

Cited by

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